

2**IN THE CLAIMS**

(1) Please cancel claims 67-85, in their entirety, without prejudice or disclaimer of the subject matter contained therein.

(2) Please add the following new claims 86-108:

86. (new) Tubing formed from a polymer blend, the blend comprising:

- a) a first regular polymer chain comprising the reaction products of at least a first monomer,
- b) a second polymer comprising;
 - i) block chain segments consisting essentially of said at least a first monomer,
 - ii) blocks chain segments of a second monomer,
- c) nanoparticles dispersed in at least one component of the blend.

87. (new) Tubing formed from a polymer blend, the blend comprising:

- a) a first homopolymer formed from one or more monomers to provide a regular linear chain of polyamide segments,
- b) a second polymer comprising;
 - i) one or more polyamide block segments formed from the one or more monomers,
 - ii) one or more flexible polyether block segments.
- c) nanoparticles dispersed in at least one component of the blend.

88. (new) Tubing formed from a polymer blend, the blend comprising:

- a) a first condensation polymer consisting essentially of a first monomer having a first pair of reactive end groups;

3

b) a second polymer comprising;

- i) block segments of a second monomer having said first pair of reactive end groups,
- ii) blocks segments of a third monomer,

c) nanoparticles dispersed in at least one component of the blend.

89. (new) Tubing according to claim 88 wherein said second monomer is the same as said first monomer.
90. (new) Tubing according to claim 86 wherein said nanoparticles comprise 1 to 10% by weight of the composition.
91. (new) Tubing according to claim 88 wherein said first condensation polymer is a polyamide.
92. (new) Tubing according to claim 91 wherein said third monomer forms a polyether.
93. (new) Tubing according to claim 88 wherein said first condensation polymer is a crystallizable polyester.
94. (new) Tubing according to claim 93 wherein said third monomer forms a polyether.
95. (new) Tubing according to claim 87 wherein the polyamide is Nylon 6.
96. (new) Tubing according to claim 87 wherein the polyamide is Nylon 12.
97. (new) Tubing according to claim 87 wherein said polymer blend comprises about 1 to 10 weight % nanoparticles.
98. (new) Tubing according to any one of claim 88 wherein said polymer blend comprises about 1 to 10 weight % nanoparticles.

4

99. (new) Tubing according to claim 86 having an inside diameter of about 0.001 inches to about 0.5 inches in which the nanoparticles comprise 1 to 10% by weight of the polymer blend, further wherein the tubing has;

a) an elastic modulus between;

- i) the modulus of said first polymer with the same weight % of nanoparticles as said polymer blend,
- ii) the modulus of the second polymer, and

b) an elongation to break is substantially the same or greater than that of tubing formed from said second polymer.

100. (new) Tubing according to claim 90 having an inside diameter of about 0.001 inches to about 0.5 inches in which the nanoparticles comprise 1 to 10% by weight of the polymer blend, further wherein the tubing has;

a) an elastic modulus between;

- i) the modulus of said first polymer with the same weight % of nanoparticles as said polymer blend,
- ii) the modulus of the second polymer, and

b) an elongation to break is substantially the same or greater than that of said second polymer.

101. (new) Tubing according to claim 86 having an inside diameter of about 0.001 inches to about 0.5 inches in which the nanoparticles comprise 1 to 10% by weight of the polymer blend, further wherein the tubing has;

a) an elastic modulus between;

- i) the modulus of said first polymer with the same weight % of nanoparticles as said polymer blend,

- ii) the modulus of the second polymer, and
 - b) the product of the elongation to break and the tensile strength is substantially the same or greater than that of tubing formed from said second polymer.
102. (new) Tubing according to claim 90 having an inside diameter of about 0.001 inches to about 0.5 inches in which the nanoparticles comprise 1 to 10% by weight of the polymer blend, further wherein the tubing has;
- a) an elastic modulus between;
 - i) the modulus of said first polymer with the same weight % of nanoparticles as the said polymer blend,
 - ii) the modulus of the second polymer, and
 - b) the product of the elongation to break and the tensile strength is substantially the same or greater than that of tubing formed from said second polymer.
103. (new) Tubing according to claim 86 wherein said nanoparticles are initially dispersed in at least one of said first and second polymer, each of which are blended in dry pellet form prior to the extrusion of the tubing.
104. (new) Tubing according to claim 87 wherein said nanoparticles are initially dispersed in at least one of said first and second polymer, each of which are blended in dry pellet form prior to the extrusion of the tubing.
105. (new) Tubing according to claim 88 wherein said nanoparticles are initially dispersed in at least one of said first and second polymer, each of which are blended in dry pellet form prior to the extrusion of the tubing.
106. (new) Tubing according to claim 86 having an inside diameter of about 0.001 inches to about 0.5 inches.
107. (new) Tubing according to claim 87 having an inside diameter of about 0.001 inches to about 0.5 inches.

6

108. (new) Tubing according to claim 88 having an inside diameter of about 0.001 inches to about 0.5 inches.